

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---|------------------|---------|------------------|
| L1 | 0 | (electrode same (tin adj oxide) same (sol-gel or (sol adj gel))).clm. | USPAT | AND | ON | 2006/01/11 11:59 |
| L2 | 9 | ((tin adj oxide) same (sol-gel or (sol adj gel))).clm. | USPAT | AND | ON | 2006/01/11 11:59 |
| L3 | 0 | (ryoumei same omote).in. | US-PGPUB; USPAT | AND | ON | 2006/01/11 12:02 |
| L4 | 6 | (yoshihide same inako).in. | US-PGPUB; USPAT | AND | ON | 2006/01/11 12:02 |
| L5 | 1 | (yosuke same matsukawa).in. | US-PGPUB; USPAT | AND | ON | 2006/01/11 12:03 |
| L6 | 47 | (kazuhiro same nishikawa).in. | US-PGPUB; USPAT | AND | ON | 2006/01/11 12:03 |
| L7 | 0 | (masayasu same sakane).in. | US-PGPUB; USPAT | AND | ON | 2006/01/11 12:03 |
| L9 | 53 | 3 or 4 or 5 or 6 or 7 | US-PGPUB; USPAT | AND | ON | 2006/01/11 12:04 |
| L10 | 26 | 9 and electrode | US-PGPUB; USPAT | AND | ON | 2006/01/11 12:04 |
| L11 | 5 | 9 and electrode and (indium or tin) near2 oxide | US-PGPUB; USPAT | AND | ON | 2006/01/11 12:05 |
| L12 | 0 | 9 and electrode and roughness and (indium or tin) near2 oxide | US-PGPUB; USPAT | AND | ON | 2006/01/11 12:05 |
| L13 | 0 | 9 and electrode and (sol-gel or solgel or (sol adj gel)) and (indium or tin) near2 oxide | US-PGPUB; USPAT | AND | ON | 2006/01/11 12:05 |
| S1 | 1 | "5225273".pn. | USPAT | OR | OFF | 2003/12/02 08:29 |
| S3 | 1 | S1 and (amorphous or crystal\$4) | USPAT | OR | OFF | 2003/12/02 08:29 |
| S4 | 3 | "311630".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2002/09/26 08:30 |
| S5 | 12 | ((touch adj panel) and roughness) and (conductive with (film or layer or coating)) | USPAT | OR | OFF | 2002/09/25 16:26 |
| S6 | 1 | (touch adj panel) and (mean with roughness) | USPAT | OR | OFF | 2002/09/25 09:55 |
| S7 | 0 | (touch adj panel) and (square with roughness) | USPAT | OR | OFF | 2002/09/25 14:12 |
| S8 | 60 | (touch adj panel) and (Ra or Rms) | USPAT | OR | OFF | 2002/09/25 09:55 |
| S9 | 5 | (touch adj panel) and ((Ra or Rms) with rough\$5) | USPAT | OR | OFF | 2002/09/25 09:56 |
| S10 | 6 | (touch adj panel) and (average with roughness) | USPAT | OR | OFF | 2002/09/25 10:00 |

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|-----|-------|--|---|----|-----|------------------|
| S11 | 15 | (kazuhiro same nishikawa).in. | USPAT | OR | OFF | 2002/09/25 10:03 |
| S12 | 0 | (masayasu same sakana).in. | USPAT | OR | OFF | 2002/09/25 10:02 |
| S13 | 1 | (yosuke same matsukawa).in. | USPAT | OR | OFF | 2002/09/25 10:02 |
| S14 | 6 | (yoshihide same inako).in. | USPAT | OR | OFF | 2002/09/25 10:02 |
| S15 | 0 | (ryoumei same omote).in. | USPAT | OR | OFF | 2002/09/25 10:01 |
| S16 | 0 | (touch adj panel) and (Ra or Rms) | USPAT | OR | OFF | 2002/09/25 10:04 |
| S17 | 0 | (touch adj panel) and rough\$5 | USPAT | OR | OFF | 2002/09/25 10:04 |
| S18 | 0 | (touch adj panel) and roughness | USPAT | OR | OFF | 2002/09/25 10:04 |
| S19 | 10175 | touch adj panel | US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/09/25 10:04 |
| S20 | 6765 | (((display adj device) or LCD or plasma or eletroluminescent)) and roughness | USPAT | OR | OFF | 2002/09/25 10:35 |
| S21 | 10 | (touch adj panel) and ("R.sub.a" or "R.sub.ms") | USPAT | OR | OFF | 2002/09/25 10:37 |
| S22 | 7 | ((((((display adj device) or LCD or plasma or eletroluminescent)) and (transparent with conductive with (film or layer or coating))) and (((mean or average or square) adj roughness) or (Ra or Rms or "R. sub.a" or "R.sub.ms")))) and electrode) and (((tin or indium) with oxide) or ITO or ATO or FTO)) and (touch with panel) | USPAT | OR | ON | 2002/09/25 10:42 |
| S23 | 134 | ((((((display adj device) or LCD or plasma or eletroluminescent)) and (transparent with conductive with (film or layer or coating))) and (((mean or average or square) adj roughness) or (Ra or Rms or "R. sub.a" or "R.sub.ms")))) and electrode) and (((tin or indium) with oxide) or ITO or ATO or FTO) | USPAT | OR | ON | 2002/09/25 10:44 |
| S24 | 173 | ((((display adj device) or LCD or plasma or eletroluminescent)) and (transparent with conductive with (film or layer or coating))) and (((mean or average or square) adj roughness) or (Ra or Rms or "R. sub.a" or "R.sub.ms")))) and electrode | USPAT | OR | ON | 2002/09/25 10:44 |

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|-----|--------|---|-------|----|-----|------------------|
| S25 | 201 | ((((display adj device) or LCD or plasma or eletroluminescent)) and (transparent with conductive with (film or layer or coating))) and (((mean or average or square) adj roughness) or (Ra or Rms or "R. sub.a" or "R.sub.ms"))) | USPAT | OR | OFF | 2002/09/25 10:44 |
| S26 | 0 | ((liquid adj crystal with orientation adj film) with (ITO or (indium with tin with oxide))).ab. | USPAT | OR | ON | 2002/09/25 11:50 |
| S27 | 0 | (liquid adj crystal with orientation adj film) with (ITO or (indium with tin with oxide)).ab. | USPAT | OR | ON | 2002/09/25 11:50 |
| S28 | 1 | (liquid adj crystal with orientation adj film) near2 (ITO or (indium with tin with oxide)) | USPAT | OR | ON | 2002/09/25 11:52 |
| S29 | 3049 | touch adj panel | USPAT | OR | ON | 2002/09/25 10:27 |
| S30 | 32 | (touch adj panel) and roughness | USPAT | OR | OFF | 2002/09/25 10:36 |
| S31 | 186 | (touch adj panel) and (transparent with conductive with (film or layer or coating)) | USPAT | OR | ON | 2002/09/25 10:36 |
| S32 | 9 | ((touch adj panel) and (transparent with conductive with (film or layer or coating))) and roughness | USPAT | OR | OFF | 2002/09/25 10:33 |
| S33 | 203681 | ((display adj device) or LCD or plasma or eletroluminescent) | USPAT | OR | OFF | 2002/09/25 10:35 |
| S34 | 5921 | ((((display adj device) or LCD or plasma or eletroluminescent)) and (transparent with conductive with (film or layer or coating))) | USPAT | OR | ON | 2002/09/25 10:45 |
| S35 | 112 | ((((display adj device) or LCD or plasma or eletroluminescent)) and (transparent with conductive with (film or layer or coating))) and (((mean or average or square) adj roughness) or (Ra or "R.sub.a" or "R.sub.ms"))) | USPAT | OR | OFF | 2002/09/25 10:47 |
| S36 | 97 | ((((display adj device) or LCD or plasma or eletroluminescent)) and (transparent with conductive with (film or layer or coating))) and (((mean or average or square) adj roughness) or (Ra or "R.sub.a" or "R.sub.ms")))) and electrode | USPAT | OR | ON | 2002/09/25 10:47 |

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|-----|----|---|-------|----|-----|------------------|
| S37 | 87 | (((((display adj device) or LCD or plasma or eletroluminescent)) and (transparent with conductive with (film or layer or coating))) and (((mean or average or square) adj roughness) or (Ra or "R.sub.a" or "R.sub.ms")))) and electrode) and (((tin or indium) with oxide) or ITO or ATO or FTO) | USPAT | OR | ON | 2002/09/25 10:44 |
| S38 | 55 | (((((display adj device) or LCD or plasma or eletroluminescent)) and (transparent with conductive with (film or layer or coating))) and (((mean or average or square) adj roughness) or (Ra or "R.sub.a" or "R.sub.ms")))) and electrode) and (((tin or indium) with oxide) or ITO or ATO or FTO)) and ((transparent with conductive with (film or layer or coating)) same electrode) | USPAT | OR | ON | 2002/09/25 10:48 |
| S39 | 51 | (((((display adj device) or LCD or plasma or eletroluminescent)) and (transparent with conductive with (film or layer or coating))) and (((mean or average or square) adj roughness) or (Ra or "R.sub.a" or "R.sub.ms")))) and electrode) and (((tin or indium) with oxide) or ITO or ATO or FTO)) and ((transparent with conductive with (film or layer or coating)) with electrode) | USPAT | OR | ON | 2002/09/25 10:45 |
| S40 | 37 | ((((display adj device) or LCD or plasma or eletroluminescent)) and (transparent with conductive with (film or layer or coating))) and ((mean or average or square) adj roughness) | USPAT | OR | OFF | 2002/09/25 10:54 |
| S41 | 31 | (((((display adj device) or LCD or plasma or eletroluminescent)) and (transparent with conductive with (film or layer or coating))) and ((mean or average or square) adj roughness)) and electrode | USPAT | OR | ON | 2002/09/25 10:54 |
| S42 | 14 | (((((display adj device) or LCD or plasma or eletroluminescent)) and (transparent with conductive with (film or layer or coating))) and ((mean or average or square) adj roughness)) and electrode) and ((transparent with conductive with (film or layer or coating)) same electrode) | USPAT | OR | ON | 2002/09/25 10:54 |

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|-----|------|---|-------|----|-----|------------------|
| S43 | 74 | ((((display adj device) or LCD or plasma or eletroluminescent)) and (transparent with conductive with (film or layer or coating))) and ((mean or average or square) with roughness) | USPAT | OR | OFF | 2002/09/25 10:54 |
| S44 | 60 | (((((display adj device) or LCD or plasma or eletroluminescent)) and (transparent with conductive with (film or layer or coating))) and ((mean or average or square) with roughness)) and electrode | USPAT | OR | ON | 2002/09/25 10:54 |
| S45 | 35 | (((((display adj device) or LCD or plasma or eletroluminescent)) and (transparent with conductive with (film or layer or coating))) and ((mean or average or square) with roughness)) and electrode) and ((transparent with conductive with (film or layer or coating)) same electrode) | USPAT | OR | ON | 2002/09/25 11:06 |
| S46 | 0 | (intaglio adj roll) and (ink adj feeder) and (doctor) and (print adj roll) | USPAT | OR | ON | 2002/09/25 11:07 |
| S47 | 1 | (intaglio adj roll) and (ink adj feeder) and (doctor) | USPAT | OR | ON | 2002/09/25 11:07 |
| S48 | 51 | intaglio adj roll | USPAT | OR | ON | 2002/09/25 11:44 |
| S49 | 1 | 3-11630 | USPAT | OR | ON | 2002/09/25 11:48 |
| S50 | 1131 | liquid adj crystal with orientation adj film | USPAT | OR | ON | 2002/09/25 11:49 |
| S51 | 751 | (liquid adj crystal with orientation adj film) and (ITO or (indium with tin with oxide)) | USPAT | OR | ON | 2002/09/25 11:49 |
| S52 | 101 | (liquid adj crystal with orientation adj film) with (ITO or (indium with tin with oxide)) | USPAT | OR | ON | 2002/09/25 13:34 |
| S53 | 368 | (transparent with conductive with film) and roughness | USPAT | OR | OFF | 2002/09/25 14:25 |
| S54 | 0 | (touch adj panel) and ((transparent with conductive with film) same roughness) | USPAT | OR | OFF | 2002/09/25 14:22 |
| S55 | 101 | (liquid adj crystal with orientation adj film) with (ITO or (indium with tin with oxide)) | USPAT | OR | ON | 2002/09/25 13:35 |
| S56 | 0 | "5477783".pn. and (touch or panel or display) | USPAT | OR | ON | 2002/09/25 13:29 |
| S57 | 0 | "5477783".pn. and (touch or panel) | USPAT | OR | ON | 2002/09/25 13:29 |
| S58 | 0 | "5477783".pn. and transparent | USPAT | OR | ON | 2002/09/25 13:29 |
| S59 | 0 | "5477783".pn. and conductive | USPAT | OR | ON | 2002/09/25 13:29 |

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|-----|----|---|-------|----|-----|------------------|
| S60 | 0 | "5477783".pn. and oxide | USPAT | OR | ON | 2002/09/25 13:29 |
| S61 | 1 | "5477783".pn. and film | USPAT | OR | ON | 2002/09/25 13:29 |
| S62 | 1 | "5477783".pn. | USPAT | OR | ON | 2002/09/25 13:28 |
| S63 | 3 | ((masaki same kenichi).in.) and (touch or panel or display)) xor ((masaki same kenichi).in.) and (touch or panel)) | USPAT | OR | ON | 2002/09/25 13:28 |
| S64 | 5 | ((masaki same kenichi).in.) and (touch or panel or display) | USPAT | OR | ON | 2002/09/25 13:29 |
| S65 | 2 | ((masaki same kenichi).in.) and (touch or panel) | USPAT | OR | ON | 2002/09/25 13:29 |
| S66 | 2 | ((masaki same kenichi).in.) and conductive | USPAT | OR | ON | 2002/09/25 13:29 |
| S67 | 0 | ((masaki same kenichi).in.) and oxide | USPAT | OR | ON | 2002/09/25 13:29 |
| S68 | 6 | ((masaki same kenichi).in.) and film | USPAT | OR | ON | 2002/09/25 13:29 |
| S69 | 6 | (masaki same kenichi).in. | USPAT | OR | OFF | 2002/09/25 13:22 |
| S70 | 3 | ((masaki same kenichi).in.) and transparent | USPAT | OR | ON | 2002/09/25 13:29 |
| S71 | 6 | (touch adj panel) and (transparent with conductive with film) and roughness | USPAT | OR | OFF | 2002/09/25 14:27 |
| S72 | 29 | (transparent with conductive with film) same roughness | USPAT | OR | OFF | 2002/09/25 16:00 |
| S73 | 17 | (transparent with conductive with film) with roughness | USPAT | OR | OFF | 2002/09/25 15:48 |
| S74 | 1 | "5579141".pn. | USPAT | OR | OFF | 2002/09/25 15:49 |
| S75 | 1 | "5579141".pn. and roughness | USPAT | OR | OFF | 2002/09/25 15:49 |
| S76 | 12 | ((transparent with conductive with film) same roughness) xor ((transparent with conductive with film) with roughness) | USPAT | OR | OFF | 2002/09/25 16:00 |
| S77 | 1 | (touch adj panel) and ((conductive with (film or layer or coating)) same roughness) | USPAT | OR | OFF | 2002/09/25 16:28 |
| S78 | 7 | (touch adj panel) and ((transparent with conductive with (film or layer or coating)) and roughness) | USPAT | OR | OFF | 2002/09/25 16:28 |
| S79 | 1 | "5579141".pn. | USPAT | OR | OFF | 2002/09/26 11:02 |
| S80 | 1 | "6217995".pn. | USPAT | OR | OFF | 2002/09/25 16:35 |
| S81 | 1 | "4675469".pn. | USPAT | OR | OFF | 2002/09/25 16:36 |
| S82 | 1 | "5871843".pn. | USPAT | OR | OFF | 2002/09/25 16:36 |
| S83 | 4 | "5579141".pn. or "6217995".pn. or "4675469".pn. or "5871843".pn. | USPAT | OR | OFF | 2002/09/25 16:36 |

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|-----|-------|---|---|----|-----|------------------|
| S84 | 4 | ("5579141".pn. or "6217995".pn. or "4675469".pn. or "5871843".pn.) and (transparent or conductive or film or roughness or Ra or Rms or "R.sub.a" or "R.sub.ms" or display or touch or panel or ITO or indium or tin or oxide) | USPAT | OR | OFF | 2002/09/25 16:37 |
| S85 | 3 | "10024516".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2002/09/26 08:31 |
| S86 | 2 | "200188983".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2002/09/26 08:37 |
| S87 | 2 | "5325646".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2002/09/26 08:39 |
| S88 | 0 | "050325646".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2002/09/26 08:37 |
| S89 | 0 | "50325646".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2002/09/26 08:37 |
| S90 | 0 | "60174126".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2002/09/26 08:39 |
| S91 | 1 | "6217995".pn. | USPAT | OR | OFF | 2002/09/26 09:16 |
| S92 | 92116 | "10024516".pn. and antimony or fluorine | USPAT | OR | OFF | 2002/09/26 09:01 |
| S93 | 0 | "10024516".pn. and (antimony or fluorine) | USPAT | OR | OFF | 2002/09/26 09:01 |
| S94 | 0 | "10024516".pn. and (F or Sb) | USPAT | OR | OFF | 2002/09/26 09:01 |
| S95 | 0 | "10024516".pn. and (tin or oxide) | USPAT | OR | OFF | 2002/09/26 09:02 |
| S96 | 1 | "6217995".pn. and (touch or panel) | USPAT | OR | OFF | 2002/09/26 09:17 |
| S97 | 0 | "6217995".pn. and (touch) | USPAT | OR | OFF | 2002/09/26 09:36 |
| S98 | 1 | "4675469".pn. | USPAT | OR | OFF | 2002/09/26 10:10 |
| S99 | 0 | "4675469".pn. and (touch or panel or display) | USPAT | OR | OFF | 2002/09/26 09:36 |

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|----------|-----|--|-------|----|-----|------------------|
| S10 0 | 1 | "4675469".pn. and (antimony or fluorine or F or Sb) | USPAT | OR | OFF | 2002/09/26 10:10 |
| S10 1 | 1 | "6089154".pn. | USPAT | OR | OFF | 2002/09/26 11:03 |
| S10 2 | 1 | "5477783".pn. | USPAT | OR | OFF | 2002/09/26 11:03 |
| S10 3 | 1 | "5158018".pn. | USPAT | OR | OFF | 2002/09/26 11:18 |
| S10 4 | 3 | "6089154".pn. or "5477783".pn. or "5158018".pn. | USPAT | OR | OFF | 2002/09/26 11:03 |
| S10 5 | 2 | ("6089154".pn. or "5477783".pn. or "5158018".pn.) and increas\$5 | USPAT | OR | OFF | 2002/09/26 11:03 |
| S10 6 | 0 | "5158018".pn. and electronic | USPAT | OR | OFF | 2002/09/26 11:18 |
| S10 7 | 1 | "6103363".pn. | USPAT | OR | OFF | 2002/09/26 15:18 |
| S10 8 | 88 | ((touch or sense) adj (panel or screen)) and roughness | USPAT | OR | OFF | 2003/04/01 15:32 |
| S10 9 | 18 | ((touch or sense) adj (panel or screen)) and roughness and electrode | USPAT | OR | OFF | 2003/04/01 14:57 |
| S11 0 | 1 | "4675469".pn. | USPAT | OR | OFF | 2003/04/01 15:21 |
| S11 1 | 0 | "4675469".pn. and sputter\$3 | USPAT | OR | OFF | 2003/04/01 15:21 |
| S11 2 | 2 | ((touch or sense) adj (panel or screen)) and ((indium adj tin adj oxide) or ITO) with sputter\$3 with (temperature or celsius) | USPAT | OR | OFF | 2003/04/01 15:33 |
| S11 3 | 3 | ((touch or sense) adj (panel or screen)) and ((indium adj tin adj oxide) or ITO) with sputter\$3 with (temperature or celsius or degree) | USPAT | OR | ON | 2003/04/01 15:31 |
| S11 4 | 15 | ((touch or sense) adj (panel or screen)) and (sputter\$3 with (temperature or celsius)) | USPAT | OR | OFF | 2003/04/01 15:31 |
| S11 5 | 0 | ((touch or sense) adj (panel or screen)) and (electrode with sputter\$3 with (temperature or celsius)) | USPAT | OR | OFF | 2003/04/01 15:32 |
| S11 6 | 450 | electrode with sputter\$3 with (temperature or celsius) | USPAT | OR | OFF | 2003/04/01 15:33 |
| S11 7 | 0 | (electrode with sputter\$3 with (temperature or celsius)) and ((touch or sense) adj (panel or screen)) | USPAT | OR | OFF | 2003/04/01 15:32 |

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|----------|----|---|-------|----|-----|------------------|
| S11 8 | 0 | (electrode with sputter\$3 with (temperature or celsius)) and ((touch or sense) with (panel or screen)) | USPAT | OR | OFF | 2003/04/01 15:32 |
| S11 9 | 33 | electrode with sputter\$3 with (temperature or celsius) same (heat with treat\$4) | USPAT | OR | OFF | 2003/04/01 15:48 |
| S12 0 | 9 | (electrode with sputter\$3 with (temperature or celsius) same (heat with treat\$4)) and ((indium adj tin adj oxide) or ITO) | USPAT | OR | OFF | 2003/04/01 15:45 |
| S12 1 | 24 | ((electrode with sputter\$3 with (temperature or celsius) same (heat with treat\$4)) and ((indium adj tin adj oxide) or ITO)) xor (electrode with sputter\$3 with (temperature or celsius) same (heat with treat\$4)) | USPAT | OR | OFF | 2003/04/01 15:45 |
| S12 2 | 48 | electrode with sputter\$3 with (low adj temperature) | USPAT | OR | OFF | 2003/04/01 15:49 |
| S12 3 | 8 | electrode with sputter\$3 with (low adj temperature) same (ITO or (indium adj tin adj oxide)) | USPAT | OR | OFF | 2003/04/01 15:51 |
| S12 4 | 0 | ((touch or sense) with (screen or panel)) with sputter\$3 with (low adj temperature) same (ITO or (indium adj tin adj oxide)) | USPAT | OR | OFF | 2003/04/01 15:52 |
| S12 5 | 0 | ((touch or sense) with (screen or panel)) with sputter\$3 with (low adj temperature) and (ITO or (indium adj tin adj oxide)) | USPAT | OR | OFF | 2003/04/01 16:02 |
| S12 6 | 3 | (LCD or (liquid adj crystal)) with sputter\$3 with (low adj temperature) same (ITO or (indium adj tin adj oxide)) | USPAT | OR | OFF | 2003/04/01 15:52 |
| S12 7 | 0 | ((touch or sense) with (screen or panel)) with sputter\$3 with ("100" with temperature) and (ITO or (indium adj tin adj oxide)) | USPAT | OR | OFF | 2003/04/01 16:04 |
| S12 8 | 0 | ((touch or sense) with (screen or panel)) with sputter\$3 with ("100" with degree) and (ITO or (indium adj tin adj oxide)) | USPAT | OR | ON | 2003/04/01 16:02 |
| S12 9 | 0 | ((touch or sense) with (screen or panel)) with sputter\$3 with "100" and (ITO or (indium adj tin adj oxide)) | USPAT | OR | ON | 2003/04/01 16:03 |
| S13 0 | 0 | ((touch or sense) with (screen or panel)) with sputter\$3 with "110" and (ITO or (indium adj tin adj oxide)) | USPAT | OR | ON | 2003/04/01 16:03 |

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|----------|----|---|-------|----|-----|------------------|
| S13 1 | 0 | ((touch or sense) with (screen or panel)) with sputter\$3 with "120" and (ITO or (indium adj tin adj oxide)) | USPAT | OR | ON | 2003/04/01 16:03 |
| S13 2 | 0 | ((touch or sense) with (screen or panel)) with sputter\$3 with "130" and (ITO or (indium adj tin adj oxide)) | USPAT | OR | ON | 2003/04/01 16:03 |
| S13 3 | 0 | ((touch or sense) with (screen or panel)) with sputter\$3 with "140" and (ITO or (indium adj tin adj oxide)) | USPAT | OR | ON | 2003/04/01 16:03 |
| S13 4 | 0 | ((touch or sense) with (screen or panel)) with sputter\$3 with "150" and (ITO or (indium adj tin adj oxide)) | USPAT | OR | ON | 2003/04/01 16:03 |
| S13 5 | 0 | ((touch or sense) with (screen or panel or display)) with sputter\$3 with "150" and (ITO or (indium adj tin adj oxide)) | USPAT | OR | ON | 2003/04/01 16:04 |
| S13 6 | 0 | ((touch or sense) with (screen or panel or display)) with sputter\$3 with "10" and (ITO or (indium adj tin adj oxide)) | USPAT | OR | ON | 2003/04/01 16:04 |
| S13 7 | 0 | ((touch or sense) with (screen or panel or display)) with sputter\$3 with "100" and (ITO or (indium adj tin adj oxide)) | USPAT | OR | ON | 2003/04/01 16:04 |
| S13 8 | 0 | ((touch or sense) with (screen or panel or display)) with sputter\$3 with "100" | USPAT | OR | ON | 2003/04/01 16:04 |
| S13 9 | 27 | ((touch or sense) with (screen or panel)) and (sputter\$3 with ("100" or "110" or "120" or "130" or "140" or "150")) and (ITO or (indium adj tin adj oxide)) | USPAT | OR | OFF | 2003/04/01 16:05 |
| S14 0 | 14 | ((touch or sense) with (screen or panel)) and (sputter\$3 with ("100" or "110" or "120" or "130" or "140" or "150")) and (ITO or (indium adj tin adj oxide)) with electrode | USPAT | OR | OFF | 2003/04/01 16:07 |
| S14 1 | 0 | ((touch or sense) with (screen or panel)) and (sputter\$3 with ("100" or "110" or "120" or "130" or "140" or "150") with (temperature or degree or celsius)) and (ITO or (indium adj tin adj oxide)) with electrode | USPAT | OR | ON | 2003/04/01 16:09 |

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| S14 2 | 2 | ((touch or sense) with (screen or panel)) and (sputter\$3 with ("100" or "110" or "120" or "130" or "140" or "150") with (temperature or degree or celsius)) and (ITO or (indium adj tin adj oxide)) | USPAT | OR | ON | 2003/04/01 16:11 |
| S14 3 | 10 | ((touch or sense) with (screen or panel)) and (sputter\$3 with (temperature or degree or celsius)) and (ITO or (indium adj tin adj oxide)) with electrode | USPAT | OR | ON | 2003/04/01 16:14 |
| S14 4 | 10 | ((touch or sense) with (screen or panel)) and (sputter\$3 with (temperature or degree or celsius)) and (ITO or (indium adj tin adj oxide)) with electrode | USPAT | OR | ON | 2003/04/02 10:10 |
| S14 5 | 0 | ((touch or sense) with (screen or panel)) and (sputter\$3 with (heat adj heat\$4)) and (ITO or (indium adj tin adj oxide)) with electrode | USPAT | OR | ON | 2003/04/02 07:58 |
| S14 6 | 0 | ((touch or sense) with (screen or panel)) and (sputter\$3 with (heat adj heat\$4)) | USPAT | OR | ON | 2003/04/02 08:08 |
| S14 7 | 0 | (LCD or (liquid adj crystal)) and (sputter\$3 with (heat adj heat\$4)) and (ITO or (indium adj tin adj oxide)) with electrode | USPAT | OR | ON | 2003/04/02 08:08 |
| S14 8 | 4 | ((touch or sense) with (screen or panel)) and (sputter\$3 with (heat adj treat\$4)) and (ITO or (indium adj tin adj oxide)) with electrode | USPAT | OR | ON | 2003/04/02 07:58 |
| S14 9 | 60 | (LCD or (liquid adj crystal)) and (sputter\$3 with (heat adj treat\$4)) and (ITO or (indium adj tin adj oxide)) with electrode | USPAT | OR | ON | 2003/04/02 08:08 |
| S15 0 | 12 | ((touch or sense) with (screen or panel)) and (sputter\$3 with (heat adj treat\$4)) | USPAT | OR | ON | 2003/04/02 08:08 |
| S15 1 | 8 | (((touch or sense) with (screen or panel)) and (sputter\$3 with (heat adj treat\$4))) xor (((touch or sense) with (screen or panel)) and (sputter\$3 with (heat adj treat\$4)) and (ITO or (indium adj tin adj oxide)) with electrode) | USPAT | OR | ON | 2003/04/02 08:08 |
| S15 2 | 1 | "5225273".pn. | USPAT | OR | OFF | 2003/04/02 10:11 |
| S15 3 | 2740 | (touch adj (panel or screen)) and (rectangular or trapezoidal) | USPAT | OR | ON | 2005/01/18 09:07 |

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|----------|------|---|-------|----|----|------------------|
| S15 4 | 0 | (touch adj (panel or screen)) and (rectangular or trapezoidal) with aggregate | USPAT | OR | ON | 2005/01/18 09:08 |
| S15 5 | 5 | (touch adj (panel or screen)) and (rectangular or trapezoidal) same aggregate | USPAT | OR | ON | 2005/01/18 09:08 |
| S15 6 | 3271 | (touch adj (panel or screen)) and (rectang\$4 or trapezoid\$3) | USPAT | OR | ON | 2005/01/18 09:09 |
| S15 7 | 389 | (touch adj (panel or screen)) and (rectang\$4 or trapezoid\$3) with surface | USPAT | OR | ON | 2005/01/18 09:09 |
| S15 8 | 2 | (touch adj (panel or screen)) and (rectang\$4 or trapezoid\$3) with grain | USPAT | OR | ON | 2005/01/18 09:10 |
| S15 9 | 152 | (touch adj (panel or screen)) with (rectang\$4 or trapezoid\$3) | USPAT | OR | ON | 2005/01/18 09:10 |
| S16 0 | 26 | (touch adj (panel or screen)) with (rectang\$4 or trapezoid\$3) with surface | USPAT | OR | ON | 2005/01/18 09:12 |
| S16 1 | 26 | (touch adj (panel or screen)) and (rectang\$4 or trapezoid\$3) with (film or layer or coating) with conductive | USPAT | OR | ON | 2005/01/18 09:17 |
| S16 2 | 158 | (touch adj (panel or screen)) and (rectang\$4 or trapezoid\$3) with (cross-section\$3 or (cross adj section\$3)) | USPAT | OR | ON | 2005/01/18 09:17 |
| S16 3 | 1 | (touch adj (panel or screen)) and (rectang\$4 or trapezoid\$3) with (cross-section\$3 or (cross adj section\$3)) with conductive | USPAT | OR | ON | 2005/01/18 09:18 |
| S16 4 | 126 | (touch adj (panel or screen)) and (rectang\$4 or trapezoid\$3) near2 (cross-section\$3 or (cross adj section\$3)) | USPAT | OR | ON | 2005/01/18 09:18 |
| S16 5 | 2 | (touch adj (panel or screen)) same (rectang\$4 or trapezoid\$3) near2 (cross-section\$3 or (cross adj section\$3)) | USPAT | OR | ON | 2005/01/18 09:19 |
| S16 6 | 5 | (touch adj (panel or screen)).ab. and (cross-section\$3 or (cross adj section\$3)) with conductive near2 (film or layer or coating) | USPAT | OR | ON | 2005/01/18 09:22 |
| S16 7 | 380 | (touch adj (panel or screen)) and (conductive near2 (film or layer or coating)) with surface | USPAT | OR | ON | 2005/01/18 09:22 |
| S16 8 | 125 | (touch adj (panel or screen)) and (surface near2 conductive near2 (film or layer or coating)) | USPAT | OR | ON | 2005/01/18 09:24 |

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|----------|------|---|-------|----|----|------------------|
| S16 9 | 3 | (touch adj (panel or screen)) and (crystal near2 (grain or aggregate)) with (rectangl\$4 or shape or trapezoidal) | USPAT | OR | ON | 2005/01/18 09:28 |
| S17 0 | 5559 | (touch adj (panel or screen)) and (rectangl\$4 or shape or trapezoidal) | USPAT | OR | ON | 2005/01/18 09:28 |
| S17 1 | 1157 | (touch adj (panel or screen)) and (rectangl\$4 or trapezoidal) | USPAT | OR | ON | 2005/01/18 09:28 |
| S17 2 | 0 | (touch adj (panel or screen)) and (rectangl\$4 or trapezoidal) with grain | USPAT | OR | ON | 2005/01/18 09:28 |
| S17 3 | 9 | (touch adj (panel or screen)) and (rectangl\$4 or trapezoidal) with crystal | USPAT | OR | ON | 2005/01/18 09:29 |
| S17 4 | 22 | (touch adj (panel or screen)) and (rectangl\$4 or trapezoidal) with (film or layer) | USPAT | OR | ON | 2005/01/18 09:38 |
| S17 5 | 145 | (touch adj (panel or screen)) and (conductive near2 (film or layer) near2 surface) | USPAT | OR | ON | 2005/01/18 09:55 |
| S17 6 | 943 | (touch adj (panel or screen)) and (conductive near2 (film or layer) surface near2 shape) | USPAT | OR | ON | 2005/01/18 09:42 |
| S17 7 | 1 | (touch adj (panel or screen)) and (conductive near2 (film or layer) with surface near2 shape) | USPAT | OR | ON | 2005/01/18 09:42 |
| S17 8 | 43 | (touch adj (panel or screen)) and (conductive near2 (film or layer) with shape) | USPAT | OR | ON | 2005/01/18 09:42 |
| S17 9 | 2 | (touch adj (panel or screen)) and etch\$3 with (cross-section\$3 or (cross adj section\$3)) with shape | USPAT | OR | ON | 2005/01/18 09:56 |
| S18 0 | 82 | (touch adj (panel or screen)) and etch\$3 with shape | USPAT | OR | ON | 2005/01/18 09:56 |
| S18 1 | 2 | (touch adj (panel or screen)) and etch\$3 with (rectangl\$4 or trapezoidal) | USPAT | OR | ON | 2005/01/18 09:58 |
| S18 2 | 82 | (touch adj (panel or screen)) and etch\$3 with (shape) | USPAT | OR | ON | 2005/01/18 09:57 |
| S18 3 | 179 | (conductive or electroconductive) adj (film or layer) and etch\$3 with (rectangl\$4 or trapezoidal) | USPAT | OR | ON | 2005/01/18 09:58 |
| S18 4 | 15 | (conductive or electroconductive) adj (film or layer) with etch\$3 with (rectangl\$4 or trapezoidal) | USPAT | OR | ON | 2005/01/18 10:03 |
| S18 5 | 1 | S184 and touch | USPAT | OR | ON | 2005/01/18 10:00 |

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|----------|----|---|--------------------|----|----|------------------|
| S18 6 | 62 | (conductive or electroconductive) adj (film or layer) with etch\$3 and etch\$3 with (rectangl\$4 or trapezoidal) | USPAT | OR | ON | 2005/01/18 10:02 |
| S18 7 | 3 | S186 and touch | USPAT | OR | ON | 2005/01/18 10:02 |
| S18 8 | 5 | (conductive or electroconductive) adj (film or layer) with etch\$3 with (rectangl\$4 or trapezoidal) with shape | USPAT | OR | ON | 2005/01/18 10:07 |
| S18 9 | 2 | (conductive or electroconductive) adj (film or layer) with etch\$3 with (rectangl\$4 or trapezoidal) with pattern | USPAT | OR | ON | 2005/01/18 10:13 |
| S19 0 | 0 | S189 and touch | USPAT | OR | ON | 2005/01/18 10:08 |
| S19 1 | 1 | "6284393".pn. | USPAT | OR | ON | 2005/01/18 10:13 |
| S19 2 | 1 | S191 and (rectangl\$4 or trapezoidal) | USPAT | OR | ON | 2005/01/18 10:13 |
| S19 3 | 1 | "6075178".pn. | USPAT | OR | ON | 2005/01/18 14:27 |
| S19 4 | 1 | S193 and (indicator or contrast) | USPAT | OR | ON | 2005/01/18 14:38 |
| S19 5 | 1 | S193 and "90" | USPAT | OR | ON | 2005/01/18 15:13 |
| S19 6 | 0 | "9566747" | USPAT | OR | ON | 2005/01/18 15:13 |
| S19 7 | 0 | "9566747" | US-PGPUB; USPAT | OR | ON | 2005/01/18 15:13 |
| S19 8 | 0 | "09566747" | US-PGPUB; USPAT | OR | ON | 2005/01/18 15:13 |